

Notice of Allowability

Application No.

10/542,136

Applicant(s)

VAN TUIJL, ADRIANUS
JOHANNES MARIA

Examiner

Patrick G. Wamsley

Art Unit

2819

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to an amendment filed on 03/27/2006.
2. ☒ The allowed claim(s) is/are 1-11.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 04/11/2006.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☒ Other See Continuation Sheet.

Continuation of Attachment(s) 9. Other: The drawings filed on 03/27/2006 have been approved.

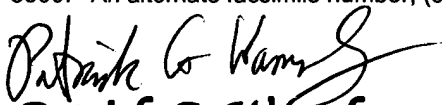
REASONS FOR ALLOWANCE

Claims 1-11 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: the references of record neither reveal nor render obvious the recited combination including an analog-to-digital converter, hereafter ADC, having interleaved coarse sections coupled to a single fine section in the claimed manner.

U.S. Patent 6,121,912 to Brandt provides a subranging ADC having coarse [12] and fine [20] comparators. U.S. Patent 5,973,632 to Tai shows an ADC having coarse [12] and fine [14] comparing circuits. U.S. Patent 5,745,067 to Chou et al uses coarse [550] and fine [560] encoders with an ADC. U.S. Patent 5,696,510 to Paillardet et al describes an ADC having coarse [30] and fine [31/32] comparator blocks. U.S. Patent 5,353,027 to Vorenkamp et al couples a coarse ADC [2] to a fine ADC [5]. U.S. Patent 5,053,771 to McDermott describes a dual range [45/51] ADC. U.S. Patent 4,733,217 to Dingwall couples a coarse ADC [10] to fine ADCs [20/40].

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick G. Wamsley whose telephone number is (571) 272-1814. The official facsimile number is (571) 273-8300. An alternate facsimile number, (571) 273-1814, should only be used for unofficial documents.


Patrick G. Wamsley

April 11, 2006

EXAMINER'S AMENDMENT


An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Carrie Anne Colby on 04/11/2006.

The application has been amended as follows:

- Page 1, line 1: Insert -- BACKGROUND OF THE INVENTION --.
- Page 1, line 10: Change "US-A-" to -- U.S. Patent --.
- Page 1, line 11: Change "document a conversion" to -- document, a conversion --.
- Page 1, line 23: Insert -- SUMMARY OF THE INVENTION --.
- Page 2, line 5: Change "co-operating" to -- cooperating --.
- Page 3, line 10: Insert -- BRIEF DESCRIPTION OF THE DRAWINGS --.
- Page 3, line 29: Insert -- DETAILED DESCRIPTION OF THE INVENTION --.
- Page 4, line 7: Change "simplefonn" to -- simple form --.
- Page 4, line 8: Change "so called" to -- so-called --.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick G. Wamsley whose telephone number is (571) 272-1814. The official facsimile number is (571) 273-8300. An alternate facsimile number, (571) 273-1814, should only be used for unofficial documents.


Patrick G. Wamsley

April 11, 2006

~~XXXXXXXXXXXX~~ REPLACEMENT SHEET ~~XXXXXXXXXXXX~~

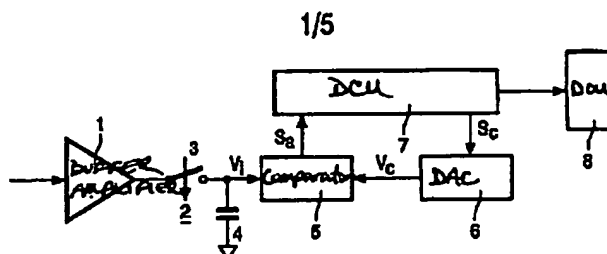


FIG.1

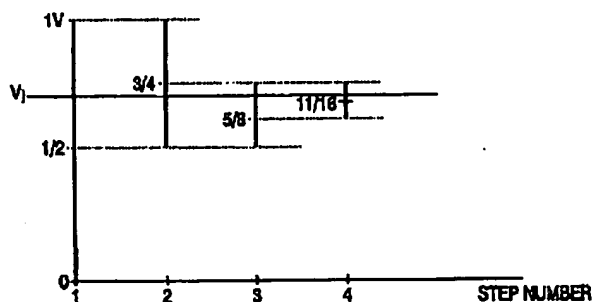


FIG.2A

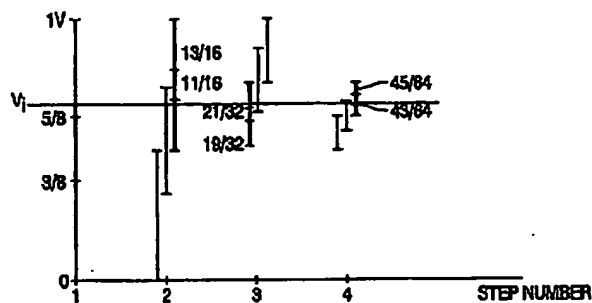


FIG.2B

OK TO ENTER

Patrick Wamsley

PATRICK WAMSLEY
PRIMARY EXAMINER

04/11/2006

REPLACEMENT SHEET

3/5

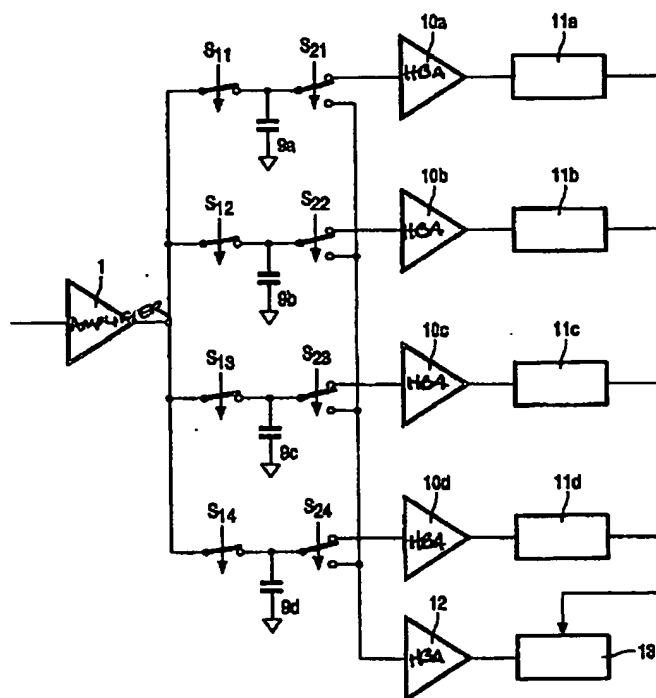


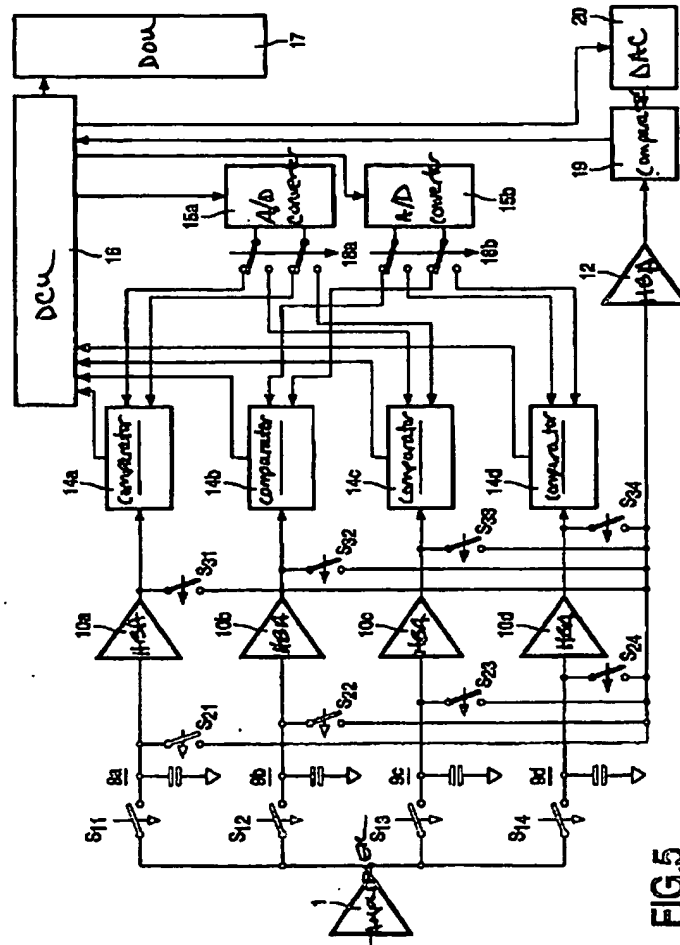
FIG.4

OK TO ENTER

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PRIMARY EXAMINER
04/11/2006

REPLACEMENT SHEET

4/5



OK TO ENTER

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04/11/2006